

section in lieu of the information in §§ 75.54(c)(1) and 75.54(c)(3), for those hours when only pipeline natural gas or a gaseous fuel with a sulfur content no greater than natural gas is combusted.

(f) The owner or operator shall meet the requirements of this section on or after January 1, 1996.

[60 FR 26535, 26568, May 17, 1995]

EFFECTIVE DATE NOTE: At 60 FR 26560, 26569, May 17, 1995, § 75.55 was amended by temporarily adding paragraph (e), effective July 17, 1995 through December 31, 1996.

**§ 75.56 Certification, quality assurance and quality control record provisions.**

(a) *Continuous emission or opacity monitoring systems.* The owner or operator shall record the applicable information in this section for each certified monitor or certified monitoring system (including certified backup monitors) measuring and recording emissions or flow from an affected unit.

(1) For each SO<sub>2</sub> or NO<sub>x</sub> pollutant concentration monitor, flow monitor, CO<sub>2</sub> monitor, or diluent gas monitor, the owner or operator shall record the following for all daily and 7-day calibration error tests, including any follow-up tests after corrective action:

- (i) Component/system identification code;
- (ii) Instrument span;
- (iii) Date and hour;
- (iv) Reference value, (i.e., calibration gas concentration or reference signal value, in ppm or other appropriate units);
- (v) Observed value (monitor response during calibration, in ppm or other appropriate units);
- (vi) Percent calibration error (rounded to nearest tenth of a percent); and
- (vii) For 7-day calibration tests for certification or recertification, a certification from the cylinder gas vendor or CEMS vendor, that calibration gas as defined in § 72.2 and appendix A of this part, were used to conduct calibration error testing; and
- (viii) Description of any adjustments, corrective actions, or maintenance following test.

(2) For each flow monitor, the owner or operator shall record the following for all daily interference checks, in-

cluding any follow-up tests after corrective action:

(i) Code indicating whether monitor passes or fails the interference check; and

(ii) Description of any adjustments, corrective actions, or maintenance following test.

(3) For each SO<sub>2</sub> or NO<sub>x</sub> pollutant concentration monitor, CO<sub>2</sub> monitor, or diluent gas monitor, the owner or operator shall record the following for the initial and all subsequent linearity check(s), including any follow-up tests after corrective action:

- (i) Component/system identification code;
- (ii) Instrument span;
- (iii) Date and hour;
- (iv) Reference value (i.e., reference gas concentration, in ppm or other appropriate units);
- (v) Observed value (average monitor response at each reference gas concentration, in ppm or other appropriate units);
- (vi) Percent error at each of three reference gas concentrations (rounded to nearest tenth of a percent); and
- (vii) Description of any adjustments, corrective action, or maintenance following test.

(4) For each flow monitor, where applicable, the owner or operator shall record the following for all quarterly leak checks, including any follow-up tests after corrective action:

- (i) Code indicating whether monitor passes or fails the quarterly leak check; and
- (ii) Description of any adjustments, corrective actions, or maintenance following test.

(5) For each SO<sub>2</sub> pollutant concentration monitor, flow monitor, CO<sub>2</sub> pollutant concentration monitor; NO<sub>x</sub> continuous emission monitoring system, SO<sub>2</sub>-diluent continuous emission monitoring system, and approved alternative monitoring system, the owner or operator shall record the following information for the initial and all subsequent relative accuracy tests and test audits:

- (i) Date and hour;
- (ii) Reference method(s) used;
- (iii) Individual test run data from the relative accuracy test audit for the SO<sub>2</sub> concentration monitor, flow monitor,

CO<sub>2</sub> pollutant concentration monitor, NO<sub>x</sub> continuous emission monitoring system, SO<sub>2</sub>-diluent continuous emission monitoring system, or approved alternative monitoring systems, including:

(A) Date, hour, and minute of beginning of test run,

(B) Date, hour, and minute of end of test run,

(C) Component/system identification code,

(D) Run number,

(E) Run data for monitor;

(F) Run data for reference method; and

(G) Flag value (0 or 1) indicating whether run has been used in calculating relative accuracy and bias values.

(iv) Calculations and tabulated results, as follows:

(A) Arithmetic mean of the monitoring system measurement values, reference method values, and of their differences, as specified in Equation A-7 in appendix A to this part.

(B) Standard deviation, as specified in Equation A-8 in appendix A to this part.

(C) Confidence coefficient, as specified in Equation A-9 in appendix A to this part.

(D) Relative accuracy test results, as specified in Equation A-10 in appendix A to this part. (For the 3-level flow monitor test only, relative accuracy test results should be recorded at each of three gas velocities. Each of these three gas velocities shall be expressed as a total gross unit load, rounded to the nearest MWe or as steam load, rounded to the nearest thousand lb/hr.)

(E) Bias test results as specified in section 7.6.4 in appendix A to this part.

(F) Bias adjustment factor from Equations A-11 and A-12 in appendix A to this part for any monitoring system or component that failed the bias test and 1.0 for any monitoring system or component that passed the bias test. (For flow monitors only, bias adjustment factors should be recorded at each of three gas velocities).

(v) Description of any adjustment, corrective action, or maintenance following test.

(vi) F-factor value(s) used to convert NO<sub>x</sub> pollutant concentration and diluent gas (O<sub>2</sub> or CO<sub>2</sub>) concentration meas-

urements into NO<sub>x</sub> emission rates (in lb/mmBtu), heat input or CO<sub>2</sub> emissions.

(6) For each SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub>, or O<sub>2</sub> pollutant concentration monitor, NO<sub>x</sub>-diluent continuous emission monitoring system, or SO<sub>2</sub>-diluent continuous emission monitoring system, the owner or operator shall record the following information for the cycle time test:

(i) Component/system identification code;

(ii) Date;

(iii) Start and end times;

(iv) Upscale and downscale cycle times for each component;

(v) Stable start monitor value;

(vi) Stable end monitor value;

(vii) Reference value of calibration gas(es);

(viii) Calibration gas level; and

(ix) Cycle time result for the entire system.

(7) Results of all trial runs and certification tests and quality assurance activities and measurements (including all reference method field test sheets, charts, records of combined system responses, laboratory analyses, and example calculations) necessary to substantiate compliance with all relevant appendices in this part. This information shall include, but shall not be limited to, the following reference method data:

(i) For each run of each test using Method 2 in appendix A of part 60 of this chapter to determine volumetric flow rate:

(A) Pitot tube coefficient;

(B) Date of pitot tube calibration;

(C) Average square root of velocity head of stack gas (inches of water) for the run;

(D) Average absolute stack gas temperature, °R;

(E) Barometric pressure at test port, inches of mercury;

(F) Stack static pressure, inches of H<sub>2</sub>O;

(G) Absolute stack gas pressure, inches of mercury;

(H) Moisture content of stack gas, percent;

(I) Molecular weight of stack gas, wet basis (lb/lb-mole);

(J) Number of reference method measurements during the run; and